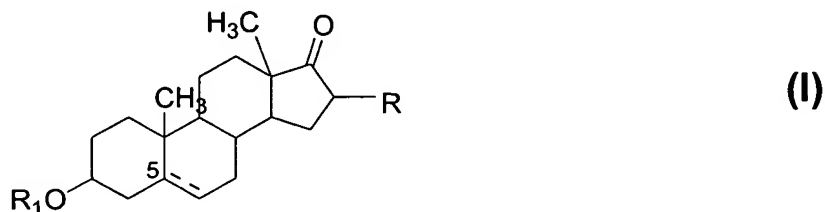


WHAT IS CLAIMED IS:

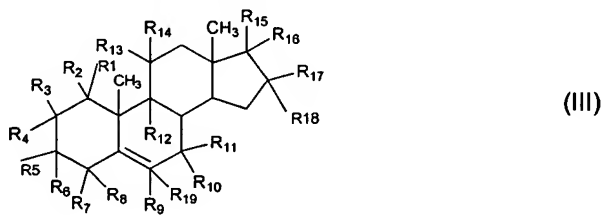
1. A pharmaceutical composition, comprising a pharmaceutically or
veterinarily acceptable carrier, a first active agent and a second active agent effective
to treat asthma, chronic obstructive pulmonary disease, or a respiratory or lung
disease,

(a) the first active agent is a non-glucocorticoid steroid having the
chemical formula

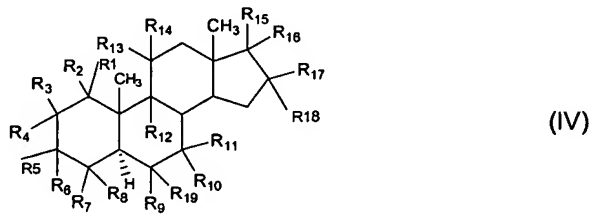


wherein the broken line represents a single or a double bond; R is hydrogen or a
halogen; the H at position 5 is present in the alpha or beta configuration or the
compound of chemical formula I comprises a racemic mixture of both configurations;
and R¹ is hydrogen or a multivalent inorganic or organic dicarboxylic acid covalently
bound to the compound;

a non-glucocorticoid steroid of the chemical formula



a non-glucocorticoid steroid of the chemical formula



wherein R1, R2, R3, R4, R5, R7, R8, R9, R10, R12, R13, R14 and R19 are
independently H, OR, halogen, (C1-C10) alkyl or (C1-C10) alkoxy, R5 and R11 are
independently OH, SH, H, halogen, pharmaceutically acceptable ester,
pharmaceutically acceptable thioester, pharmaceutically acceptable ether,

pharmaceutically acceptable thioether, pharmaceutically acceptable inorganic esters, pharmaceutically acceptable monosaccharide, disaccharide or oligosaccharide, spirooxirane, spirothirane, -OSO₂R₂₀, -OPOR₂₀R₂₁ or (C₁-C₁₀) alkyl, R₅ and R₆ taken together are =O, R₁₀ and R₁₁ taken together are =O; R₁₅ is (1) H, halogen, (C₁-C₁₀) alkyl, or (C₁-C₁₀) alkoxy when R₁₆ is -C(O)OR₂₂, (2) H, halogen, OH or (C₁-C₁₀) alkyl when R₁₆ is halogen, OH or (C₁-C₁₀) alkyl, (3) H, halogen, (C₁-C₁₀) alkyl, (C₁-C₁₀) alkenyl, (C₁-C₁₀) alkynyl, formyl, (C₁-C₁₀) alkanoyl or epoxy when R₁₆ is OH, (4) OR, SH, H, halogen, pharmaceutically acceptable ester, pharmaceutically acceptable thioester, pharmaceutically acceptable ether, pharmaceutically acceptable thioether, pharmaceutically acceptable inorganic esters, pharmaceutically acceptable monosaccharide, disaccharide or oligosaccharide, spirooxirane, spirothirane, -OSO₂R₂₀ or -OPOR₂₀R₂₁ when R₁₆ is H, or R₁₅ and R₁₆ taken together are =O; R₁₇ and R₁₈ are independently (1) H, -OH, halogen, (C₁-C₁₀) alkyl or -(C₁-C₁₀) alkoxy when R₆ is H OR, halogen. (C₁-C₁₀) alkyl or -C(O)OR₂₂, (2) H, (C₁-C₁₀) alkyl.amino, ((C₁-C₁₀) alkyl)_n amino-(C₁-C₁₀) alkyl, (C₁-C₁₀) alkoxy, hydroxy-(C₁-C₁₀) alkyl, (C₁-C₁₀) alkoxy-(C₁-C₁₀) alkyl, (halogen)_m (C₁-C₁₀) alkyl, (C₁-C₁₀) alkanoyl, formyl, (C₁-C₁₀) carbalkoxy or (C₁-C₁₀) alkanoyloxy when R₁₅ and R₁₆ taken together are =O, (3) R₁₇ and R₁₈ taken together are =O; (4) R₁₇ or R₁₈ taken together with the carbon to which they are attached form a 3-6 member ring containing 0 or 1 oxygen atom; or (5) R₁₅ and R₁₇ taken together with the carbons to which they are attached form an epoxide ring; R₂₀ and R₂₁ are independently OH, pharmaceutically acceptable ester or pharmaceutically acceptable ether; R₂₂ is H, (halogen)_m (C₁-C₁₀) alkyl or (C₁-C₁₀) alkyl; n is 0, 1 or 2; and m is 1, 2 or 3; or pharmaceutically or veterinarily acceptable salts thereof; and

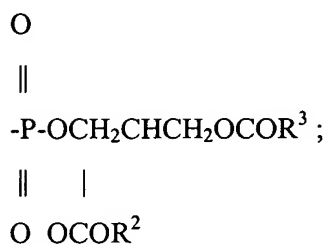
(b) the second active agent is a β ₂-agonist bronchodilator.

2. The pharmaceutical composition of claim 1, wherein the first active agent is a non-glucocorticoid steroid having the chemical formula (I), wherein said multivalent organic dicarboxylic acid is SO₂OM, phosphate or carbonate, wherein M comprises a counterion, wherein said counterion is H, sodium, potassium, magnesium, aluminum, zinc, calcium, lithium, ammonium, amine, arginine, lysine, histidine,

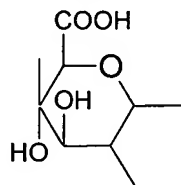
triethylamine, ethanolamine, choline, triethanoamine, procaine, benzathine,
tromethamine, pyrrolidine, piperazine, diethylamine, sulfatide



or phosphatide



wherein R^2 and R^3 , which are the same or different, and are straight or branched (C_1 - C_{14}) alkyl or glucuronide

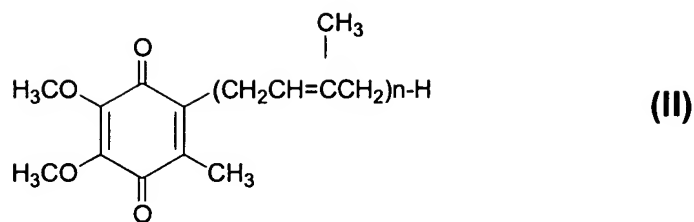


3. The pharmaceutical composition of claim 2, wherein said first active agent is dehydroepiandrosterone.

4. The pharmaceutical composition of claim 2, wherein said first active agent is dehydroepiandrosterone-sulfate.

5. The pharmaceutical composition of claim 1, wherein said β 2-agonist bronchodilator is a salmeterol or formoterol.

6. The pharmaceutical composition of claim 1, further comprising a ubiquinone or pharmaceutically or veterinarily acceptable salt thereof, wherein the ubiquinone has the chemical formula



wherein n is 1 to 12.

7. The pharmaceutical composition of claim 1, wherein the
5 pharmaceutical composition comprises particles of inhalable or respirable size.

8. The pharmaceutical composition of claim 7, wherein the particles are
about 0.01 μm to about 10 μm in size.

10 9. The pharmaceutical composition of claim 7, wherein the particles are
about 10 μm to about 100 μm in size.

10. A kit comprising a delivery device and the pharmaceutical composition
of claim 1.

15 11. The kit of claim 10, wherein the delivery device is an aerosol generator
or spray generator.

20 12. The kit of claim 11, wherein the aerosol generator comprises an
inhaler.

13. The kit of claim 12, wherein the inhaler delivers individual pre-
metered doses of the formulation

25 14. The kit of claim 12, wherein the inhaler comprises a nebulizer or
insufflator.

15. A method for reducing the probability of or treating asthma in a subject, comprising administering to a subject in need of such treatment a prophylactically or therapeutically effective amount of the pharmaceutical composition of claim 1.

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16. A method for reducing the probability of or treating of chronic obstructive pulmonary disease in a subject, comprising administering to a subject in need of such treatment a prophylactically or therapeutically effective amount of the pharmaceutical composition of claim 1.

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17. A method for treatment of respiratory, lung or malignant disorder or condition, or for reducing levels of, or sensitivity to, adenosine or adenosine receptors in a subject, comprising administering to a subject in need of such treatment a prophylactically or therapeutically effective amount of the pharmaceutical composition of claim 1.

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18. The method of claim 17, wherein the disorder or condition comprises asthma, chronic obstructive pulmonary disease (COPD), cystic fibrosis (CF), dyspnea, emphysema, wheezing, pulmonary hypertension, pulmonary fibrosis, hyper-responsive airways, increased adenosine or adenosine receptor levels, adenosine hyper-sensitivity, infectious diseases, pulmonary bronchoconstriction, respiratory tract inflammation or allergies, lung surfactant or ubiquinone depletion, chronic bronchitis, bronchoconstriction, difficult breathing, impeded or obstructed lung airways, adenosine test for cardiac function, pulmonary vasoconstriction, impeded respiration, Acute Respiratory Distress Syndrome (ARDS), administration of adenosine or adenosine level increasing drugs, infantile Respiratory Distress Syndrome (infantile RDS), pain, allergic rhinitis, cancer, or chronic bronchitis.

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